

			1-NN				3-NN				5-NN			
ER+	ER-	k_{ER+}^{train}	PA	PA_{ER+}	PA_{ER-}	PV_{ER+}	PV_{ER-}	AUC	PA	PA_{ER+}	PA_{ER-}	PV_{ER+}	PV_{ER-}	AUC
10	5	0.67	0.81 (0.07)	0.85 (0.11)	0.77 (0.13)	0.88 (0.05)	0.75 (0.14)	0.88 (0.06)	0.81 (0.07)	0.85 (0.11)	0.78 (0.13)	0.89 (0.05)	0.74 (0.13)	0.89 (0.06)
20	8	0.8	0.82 (0.07)	0.85 (0.11)	0.79 (0.11)	0.94 (0.03)	0.61 (0.17)	0.89 (0.05)	0.83 (0.07)	0.85 (0.11)	0.8 (0.12)	0.95 (0.03)	0.61 (0.17)	0.9 (0.05)
30	0.86	0.86	0.83 (0.06)	0.85 (0.11)	0.8 (0.1)	0.96 (0.02)	0.54 (0.18)	0.9 (0.05)	0.83 (0.06)	0.85 (0.11)	0.81 (0.1)	0.97 (0.02)	0.53 (0.18)	0.9 (0.05)
45	0.9	0.9	0.83 (0.06)	0.86 (0.09)	0.8 (0.1)	0.97 (0.01)	0.46 (0.2)	0.89 (0.05)	0.83 (0.06)	0.86 (0.09)	0.81 (0.1)	0.98 (0.01)	0.46 (0.2)	0.9 (0.05)
20	10	0.67	0.85 (0.05)	0.86 (0.09)	0.83 (0.07)	0.91 (0.03)	0.77 (0.11)	0.9 (0.04)	0.86 (0.05)	0.88 (0.08)	0.84 (0.07)	0.92 (0.03)	0.79 (0.11)	0.91 (0.04)
30	0.75	0.75	0.86 (0.04)	0.87 (0.08)	0.84 (0.07)	0.94 (0.02)	0.71 (0.13)	0.91 (0.04)	0.87 (0.04)	0.89 (0.07)	0.84 (0.06)	0.95 (0.02)	0.73 (0.13)	0.91 (0.04)
45	0.82	0.82	0.86 (0.04)	0.87 (0.08)	0.84 (0.07)	0.96 (0.02)	0.64 (0.15)	0.91 (0.04)	0.86 (0.04)	0.88 (0.07)	0.84 (0.06)	0.96 (0.01)	0.65 (0.15)	0.92 (0.04)
			DLDA				DQDA				RF			
ER+	ER-	k_{ER+}^{train}	PA	PA_{ER+}	PA_{ER-}	PV_{ER+}	PV_{ER-}	AUC	PA	PA_{ER+}	PA_{ER-}	PV_{ER+}	PV_{ER-}	AUC
10	5	0.67	0.77 (0.08)	0.82 (0.12)	0.71 (0.15)	0.86 (0.06)	0.7 (0.14)	0.85 (0.07)	0.77 (0.09)	0.82 (0.14)	0.72 (0.15)	0.86 (0.06)	0.7 (0.15)	0.85 (0.07)
20	0.8	0.8	0.78 (0.08)	0.83 (0.11)	0.74 (0.14)	0.93 (0.03)	0.57 (0.18)	0.86 (0.07)	0.78 (0.07)	0.83 (0.11)	0.75 (0.13)	0.93 (0.03)	0.57 (0.18)	0.86 (0.07)
30	0.86	0.86	0.79 (0.08)	0.84 (0.11)	0.74 (0.14)	0.95 (0.02)	0.49 (0.19)	0.87 (0.06)	0.79 (0.07)	0.83 (0.13)	0.75 (0.13)	0.95 (0.02)	0.5 (0.19)	0.87 (0.06)
45	0.9	0.9	0.79 (0.07)	0.84 (0.12)	0.75 (0.15)	0.97 (0.01)	0.41 (0.2)	0.87 (0.06)	0.8 (0.07)	0.84 (0.12)	0.75 (0.12)	0.97 (0.01)	0.42 (0.2)	0.87 (0.06)
20	10	0.67	0.84 (0.05)	0.85 (0.08)	0.82 (0.08)	0.91 (0.04)	0.75 (0.11)	0.9 (0.04)	0.84 (0.05)	0.86 (0.09)	0.82 (0.08)	0.91 (0.04)	0.76 (0.11)	0.9 (0.04)
30	0.75	0.75	0.84 (0.05)	0.86 (0.08)	0.83 (0.08)	0.94 (0.03)	0.68 (0.13)	0.9 (0.04)	0.85 (0.05)	0.86 (0.08)	0.83 (0.08)	0.94 (0.03)	0.69 (0.13)	0.9 (0.04)
45	0.82	0.82	0.84 (0.05)	0.86 (0.08)	0.82 (0.08)	0.96 (0.02)	0.6 (0.15)	0.91 (0.04)	0.84 (0.05)	0.87 (0.08)	0.82 (0.08)	0.96 (0.02)	0.61 (0.15)	0.91 (0.04)
			SVM				PAM				PLR			
ER+	ER-	k_{ER+}^{train}	PA	PA_{ER+}	PA_{ER-}	PV_{ER+}	PV_{ER-}	AUC	PA	PA_{ER+}	PA_{ER-}	PV_{ER+}	PV_{ER-}	AUC
10	5	0.67	0.81 (0.07)	0.85 (0.11)	0.78 (0.12)	0.89 (0.05)	0.75 (0.14)	0.88 (0.06)	0.79 (0.09)	0.8 (0.13)	0.78 (0.14)	0.88 (0.07)	0.75 (0.13)	0.88 (0.06)
20	0.8	0.8	0.83 (0.07)	0.85 (0.11)	0.8 (0.11)	0.95 (0.03)	0.62 (0.16)	0.89 (0.05)	0.81 (0.08)	0.81 (0.12)	0.8 (0.17)	0.95 (0.03)	0.61 (0.16)	0.89 (0.05)
30	0.86	0.86	0.83 (0.06)	0.85 (0.11)	0.81 (0.1)	0.96 (0.02)	0.54 (0.18)	0.9 (0.05)	0.82 (0.07)	0.83 (0.11)	0.81 (0.1)	0.96 (0.02)	0.54 (0.18)	0.9 (0.05)
45	0.9	0.9	0.83 (0.06)	0.86 (0.09)	0.81 (0.09)	0.98 (0.01)	0.46 (0.2)	0.9 (0.05)	0.83 (0.06)	0.86 (0.09)	0.81 (0.09)	0.98 (0.01)	0.46 (0.2)	0.9 (0.05)
20	10	0.67	0.86 (0.05)	0.88 (0.07)	0.84 (0.06)	0.92 (0.03)	0.79 (0.11)	0.91 (0.04)	0.85 (0.05)	0.87 (0.08)	0.84 (0.07)	0.92 (0.03)	0.78 (0.11)	0.9 (0.04)
30	0.75	0.75	0.87 (0.04)	0.89 (0.07)	0.85 (0.06)	0.95 (0.02)	0.74 (0.13)	0.91 (0.04)	0.86 (0.05)	0.87 (0.08)	0.85 (0.07)	0.94 (0.02)	0.72 (0.14)	0.91 (0.04)
45	0.82	0.82	0.86 (0.04)	0.89 (0.07)	0.84 (0.06)	0.96 (0.01)	0.66 (0.15)	0.91 (0.04)	0.86 (0.04)	0.87 (0.08)	0.84 (0.06)	0.96 (0.01)	0.63 (0.16)	0.92 (0.04)

Table 1: Predictive accuracy (PA), class 1 PA (PA_1), class 2 PA (PA_2), positive and negative predictive value (PV_1 , PV_2) and area under the ROC curve (AUC) for different proportions of ER- samples in the training set . Test set was balanced and contained 20 samples from each class. Multiple down-sizing was used to balance class distribution.